

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042818\
 Data File : VX001216.D
 Acq On : 28 Apr 2018 16:22
 Operator : JC/MD
 Sample : J2507-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Manual Integrations
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Quant Time: Apr 30 02:14:29 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 27 01:51:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	191862	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	260224	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	227922	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	126534	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	144784	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
35) Dibromofluoromethane	5.51	113	113163	52.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.08%	
50) Toluene-d8	8.72	98	436032	53.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.28%	
62) 4-Bromofluorobenzene	11.14	95	145337	45.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.54%	

Target Compounds

						Qvalue
4) Vinyl Chloride	1.40	62	3794732	1697.29	ug/l	98
12) 1,1-Dichloroethene	2.38	96	24316	12.53	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	550358	256.61	ug/l	98
27) cis-1,2-Dichloroethene	4.61	96	34266579m	14592.00	ug/l	
39) Methylcyclohexane	7.47	83	4946	1.56	ug/l	88
40) Benzene	6.15	78	52973	6.39	ug/l	99
42) 1,2-Dichloroethane	6.21	62	81773	24.46	ug/l	97
44) Trichloroethene	7.22	130	114873	46.48	ug/l	95
52) Toluene	8.79	92	18690	3.45	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	74966	32.66	ug/l	98
64) Tetrachloroethene	9.35	164	1260	0.52	ug/l #	76
65) Chlorobenzene	10.14	112	12656	2.12	ug/l	99
67) Ethyl Benzene	10.26	91	2007	0.21	ug/l #	86
68) m/p-Xylenes	10.37	106	1587	0.41	ug/l	97
69) o-Xylene	10.71	106	4570	1.23	ug/l	93
73) Isopropylbenzene	11.02	105	3048	0.37	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	2971	0.43	ug/l	98
83) tert-Butylbenzene	11.77	119	1476	0.21	ug/l	93
84) 1,2,4-Trimethylbenzene	11.81	105	5140	0.72	ug/l	99
85) sec-Butylbenzene	11.95	105	3881	0.48	ug/l	100
86) p-Isopropyltoluene	12.07	119	4639	0.61	ug/l	95
87) 1,3-Dichlorobenzene	12.03	146	81687	18.60	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	347104	75.88	ug/l	99
91) 1,2-Dichlorobenzene	12.40	146	2640799	595.09	ug/l	100
93) 1,2,4-Trichlorobenzene	13.65	180	2583	0.74	ug/l #	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

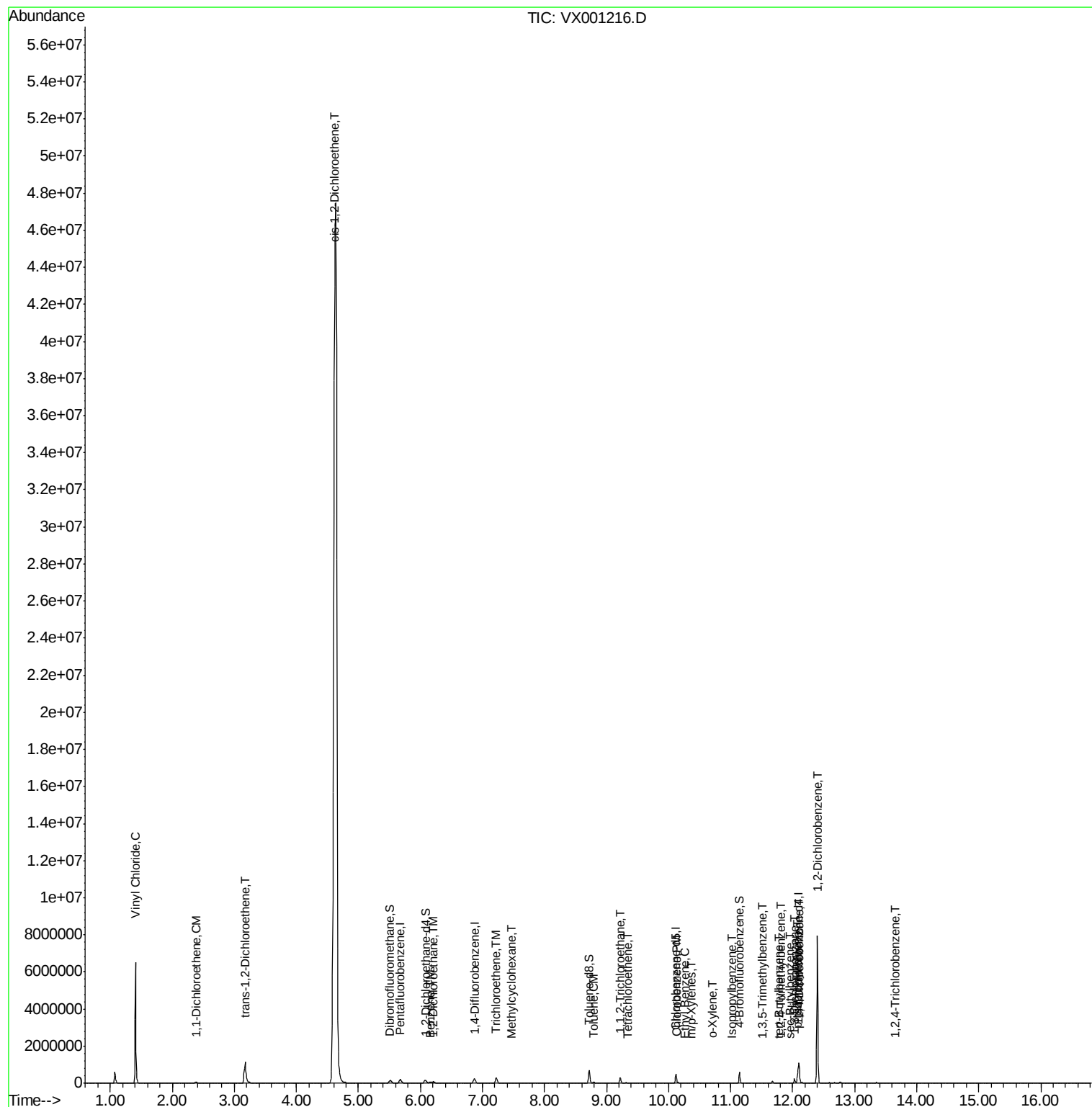
Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042818\
Data File : VX001216.D
Acq On : 28 Apr 2018 16:22
Operator : JC/MD
Sample : J2507-06DL 5X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 11 Sample Multiplier: 1

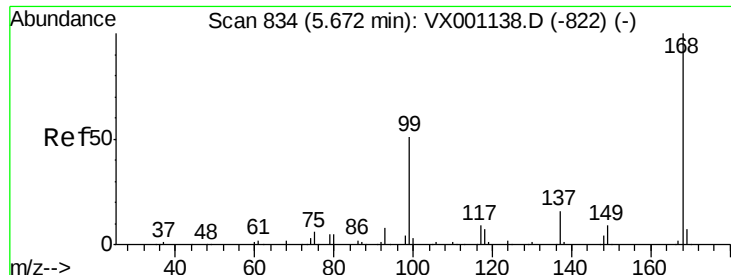
Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-180419DL

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Quant Time: Apr 30 02:14:29 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 27 01:51:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-180419DL

Tot Ion:168 Resp: 191862

Ion Ratio Lower Upper

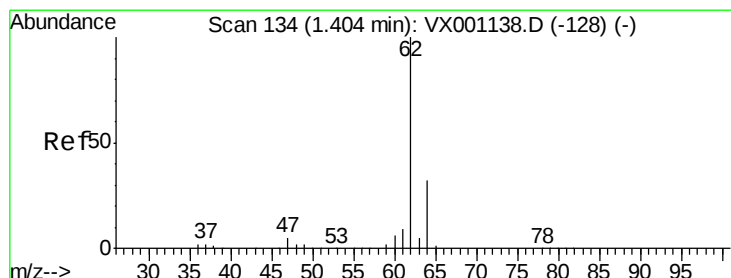
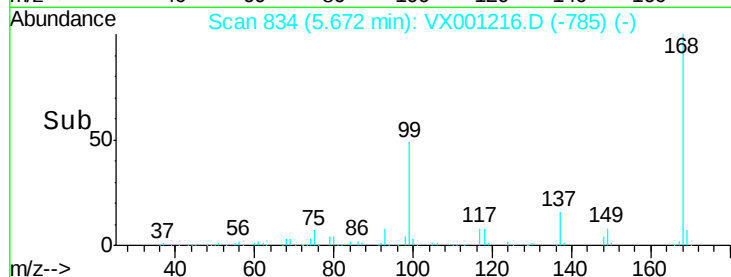
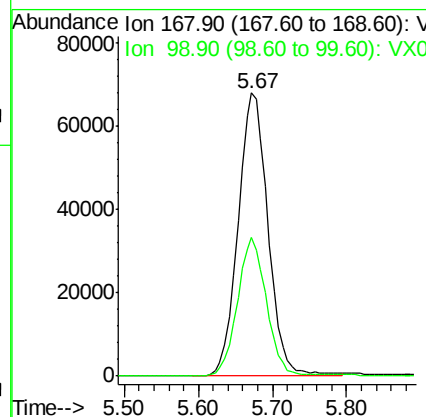
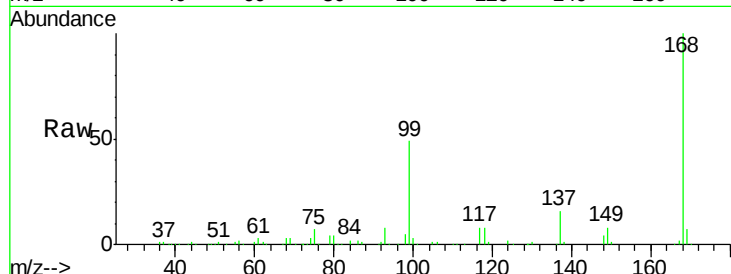
168 100

99 49.0 40.6 60.8

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#4

Vinyl Chloride

Concen: 1697.29 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001216.D

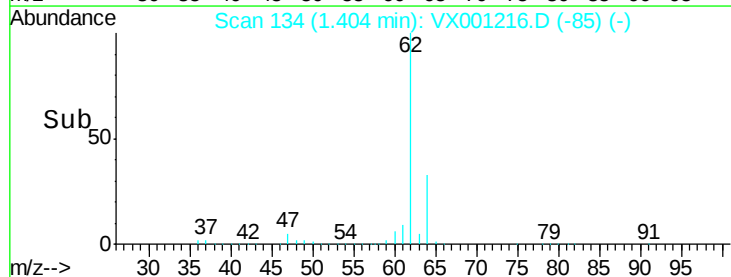
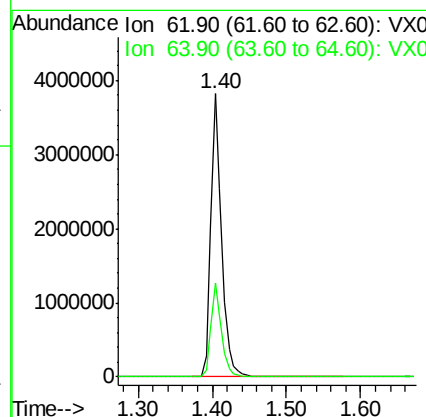
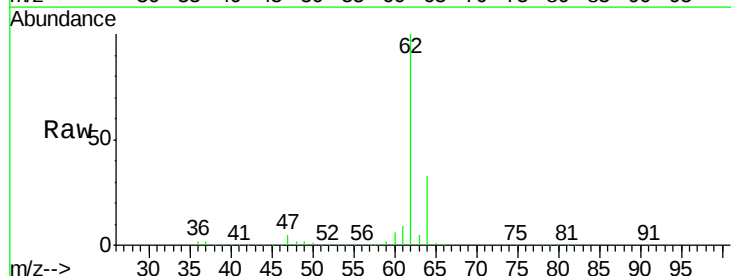
Acq: 28 Apr 2018 16:22

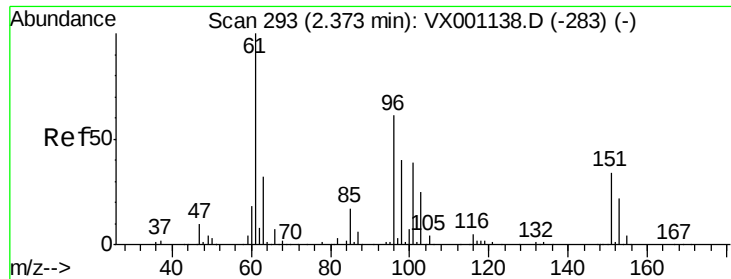
Tgt Ion: 62 Resp: 3794732

Ion Ratio Lower Upper

62 100

64 33.3 25.6 38.4





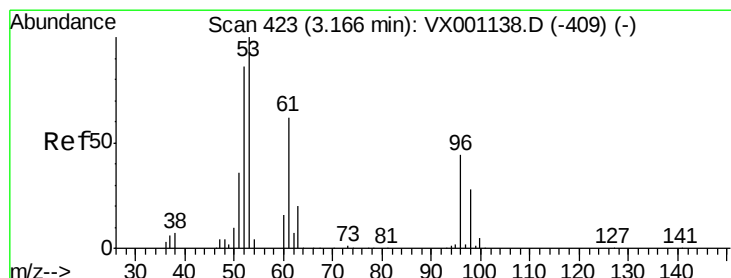
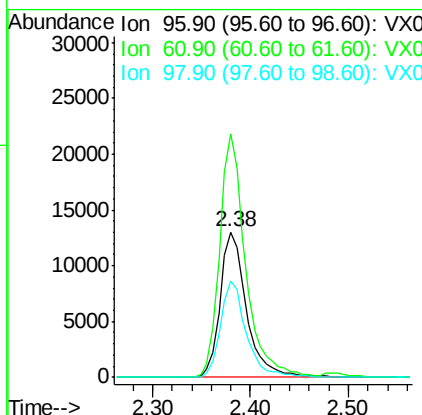
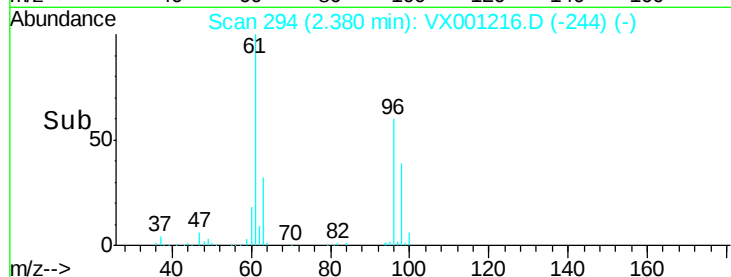
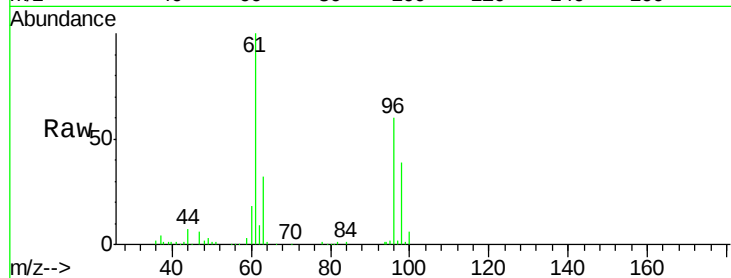
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1,1-Dichloroethene
Concen: 12.53 ug/l
RT: 2.38 min Scan# 294
Delta R.T. 0.01 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-180419DL

Tot Ion	Ratio	Resp	Lower	Upper
96	100	24316		
61	167.6	130.2	195.4	
98	66.2	51.5	77.3	

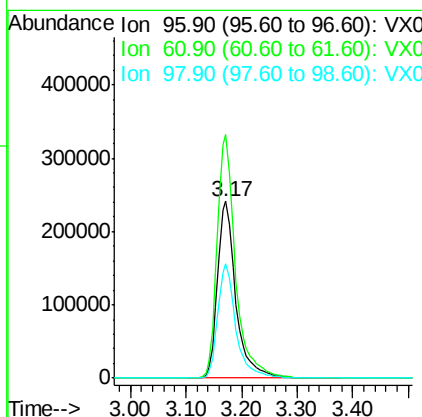
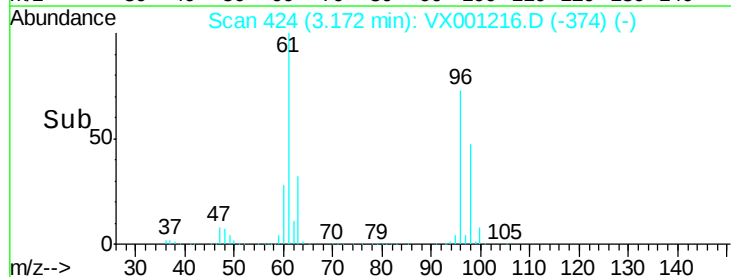
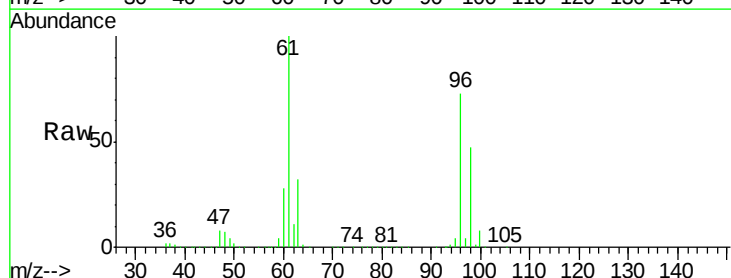
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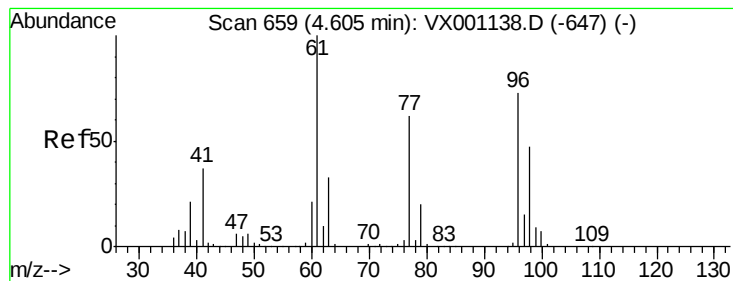
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#21
trans-1,2-Dichloroethene
Concen: 256.61 ug/l
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	550358		
61	137.8	111.9	167.9	
98	64.8	51.1	76.7	





#27

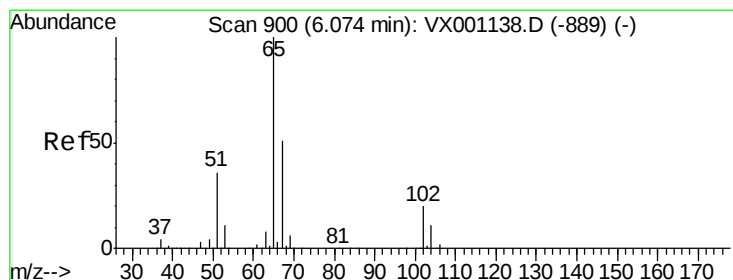
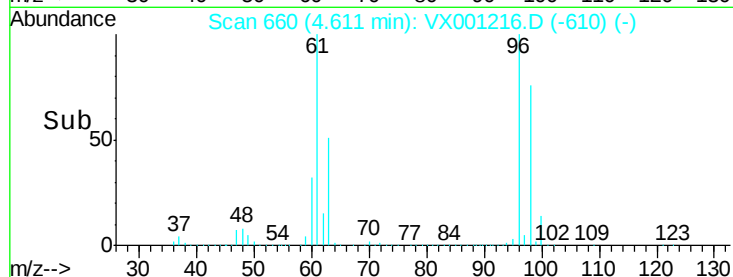
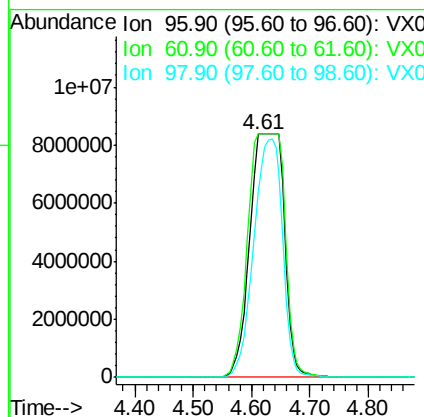
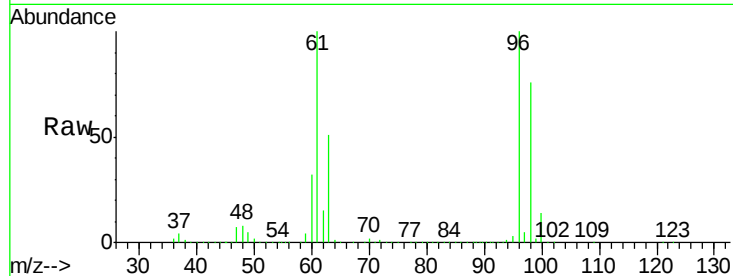
cis-1,2-Dichloroethene
 Concen: 14592.00 ug/l m
 RT: 4.61 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Tot Ion: 96 Resp: 34266579
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 289.0
 98 0.0 0.0 128.2

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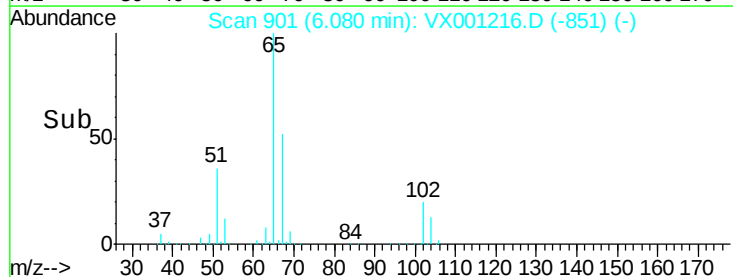
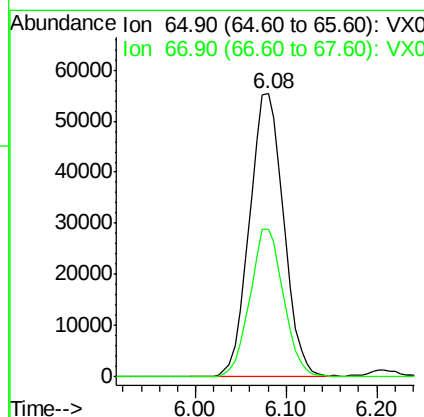
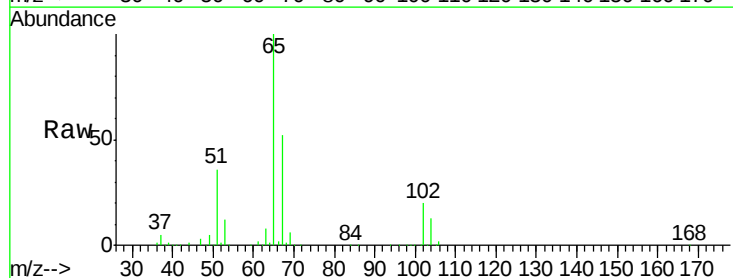
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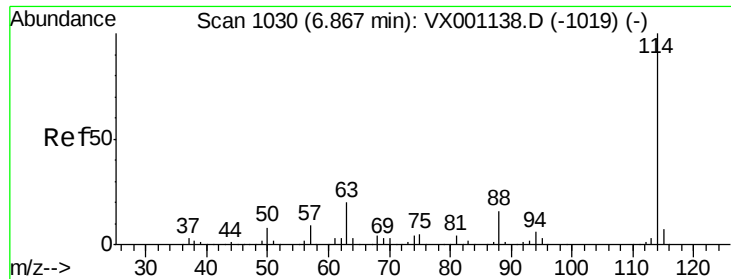


#33

1,2-Dichloroethane-d4
 Concen: 48.68 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Tgt Ion: 65 Resp: 144784
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Instrument :

MSVOA_X

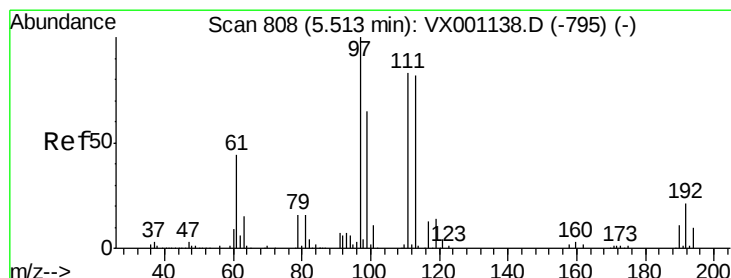
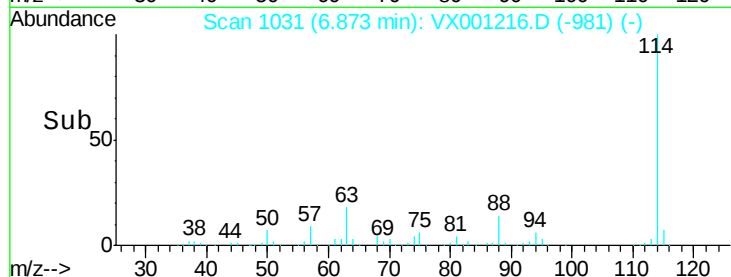
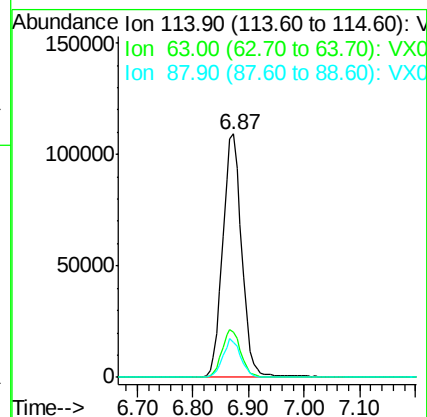
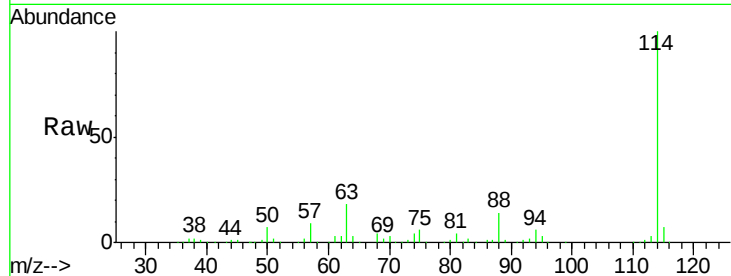
ClientSampleId :

SS043MW009-180419DL

Tot Ion:	114	Resp:	260224
Ion Ratio	Lower	Upper	
114	100		
63	18.4	0.0	40.4
88	14.4	0.0	31.8

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#35

Dibromofluoromethane

Concen: 52.54 ug/l

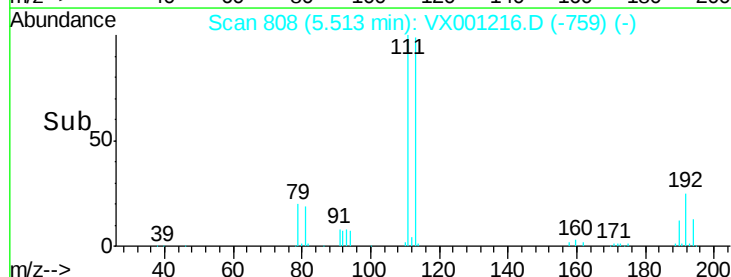
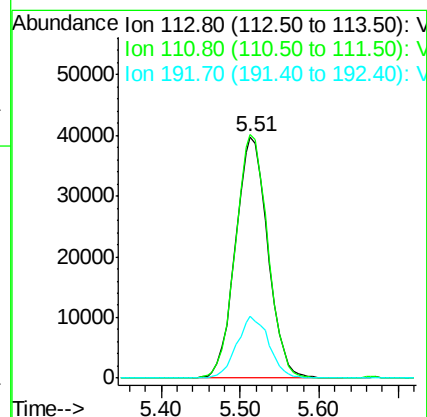
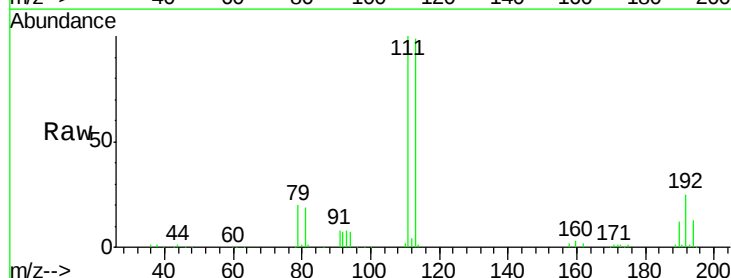
RT: 5.51 min Scan# 808

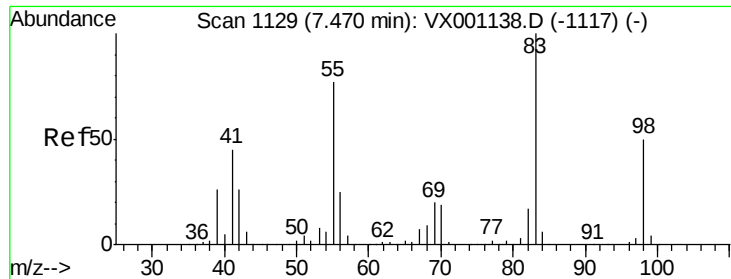
Delta R.T. 0.00 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Tgt Ion:	113	Resp:	113163
Ion Ratio	Lower	Upper	
113	100		
111	101.0	82.2	123.4
192	25.5	20.6	30.8





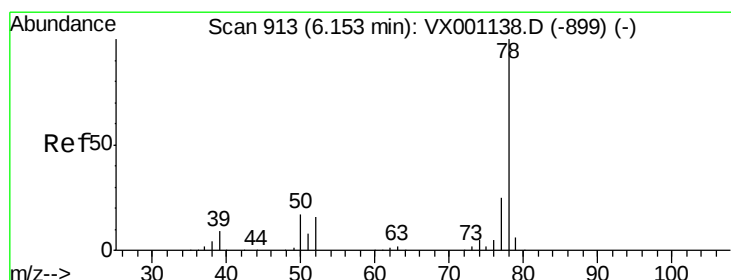
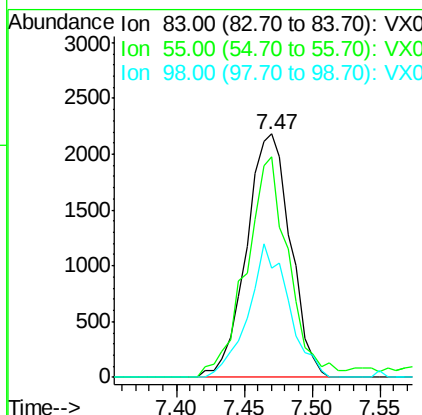
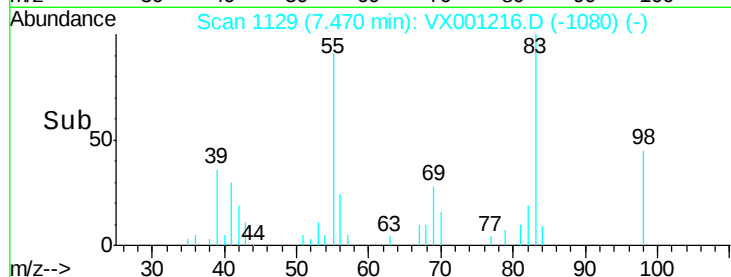
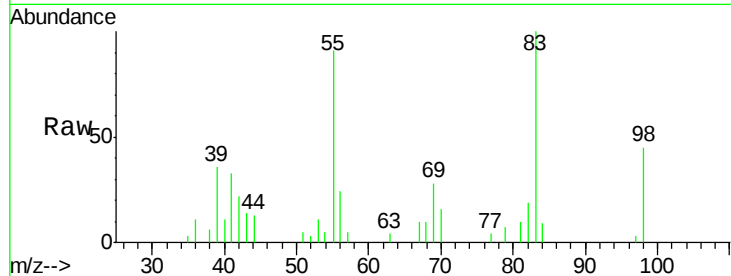
#39
Methvlcvclohexane
Concen: 1.56 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-180419DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.7	61.8	92.6
98	44.9	40.0	60.0

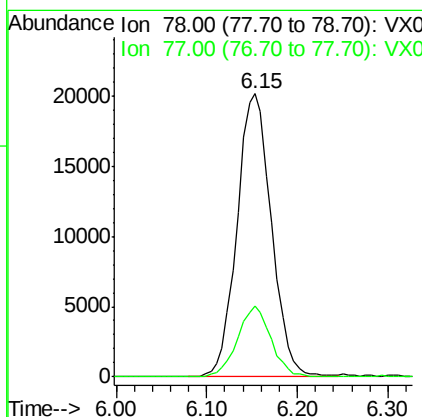
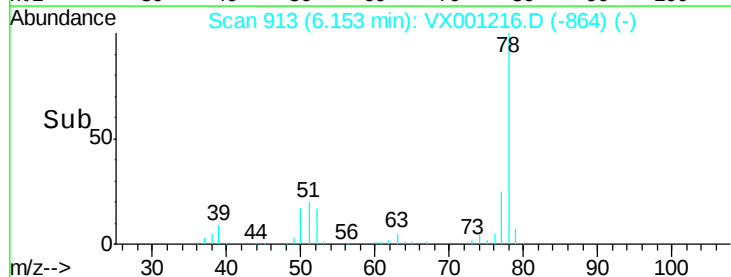
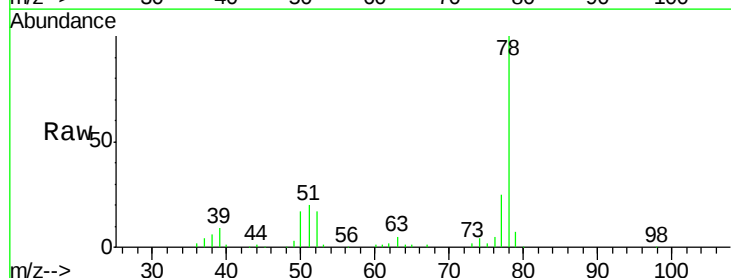
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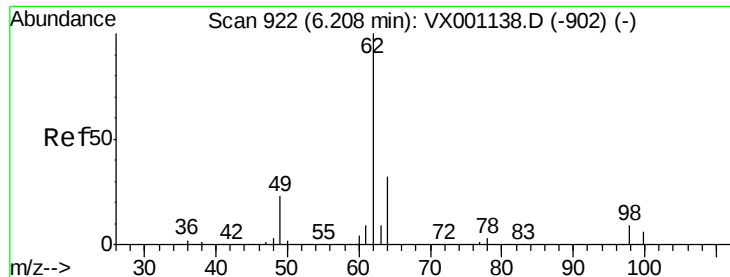
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#40
Benzene
Concen: 6.39 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.00 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.7	29.5





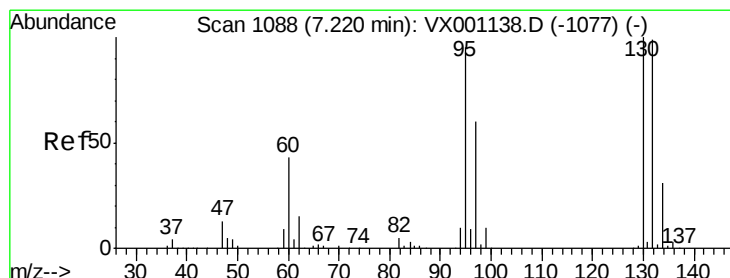
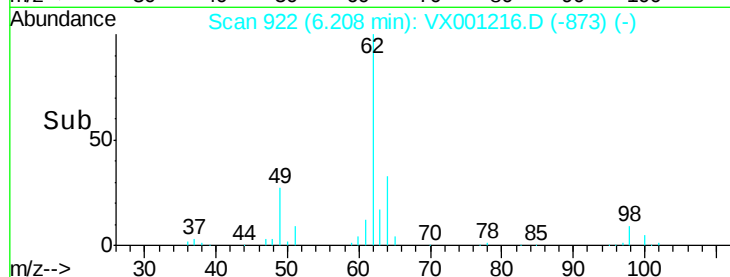
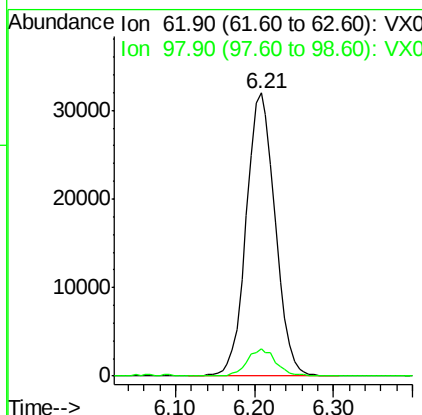
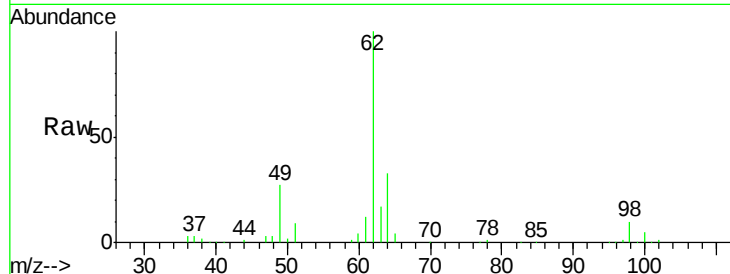
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 1,2-Dichloroethane
 Concen: 24.46 ug/l
 RT: 6.21 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Tot Ion	Ratio	Resp	Lower	Upper
62	100	81773		
98	9.6	0.0	0.0	17.0

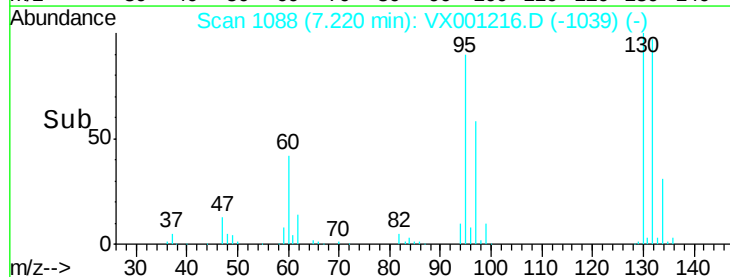
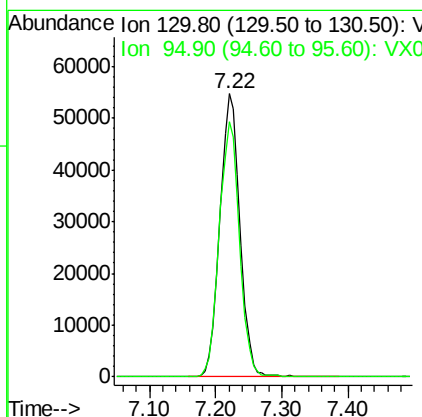
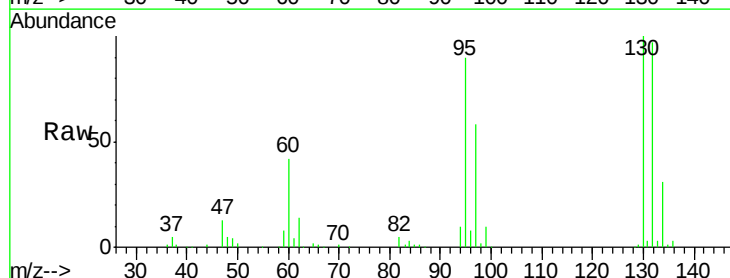
Manual Integrations
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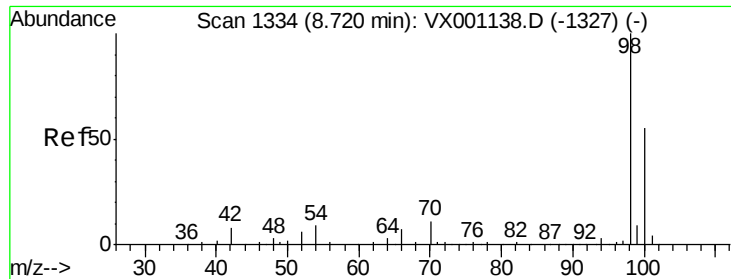
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#44
 Trichloroethene
 Concen: 46.48 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	114873		
95	90.3	0.0	0.0	189.6





#50

Toluene-d8

Concen: 53.64 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-180419DL

Tot Ion: 98 Resp: 436032

Ion Ratio Lower Upper

98 100

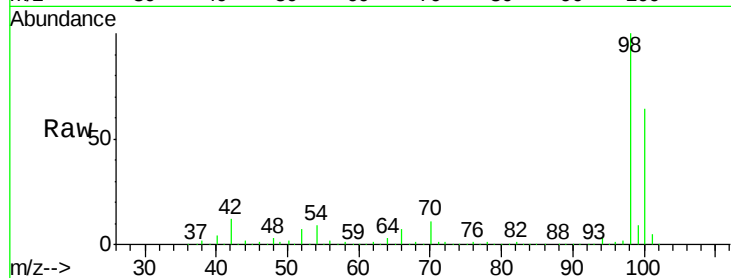
100 64.0 51.8 77.6

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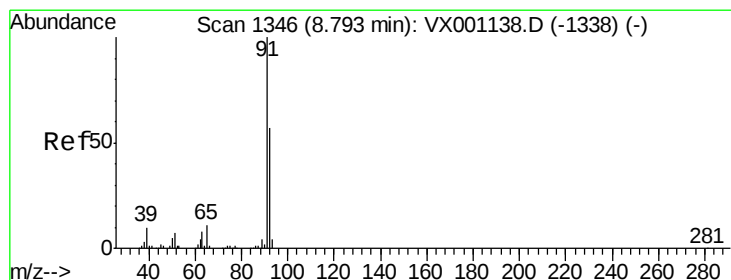
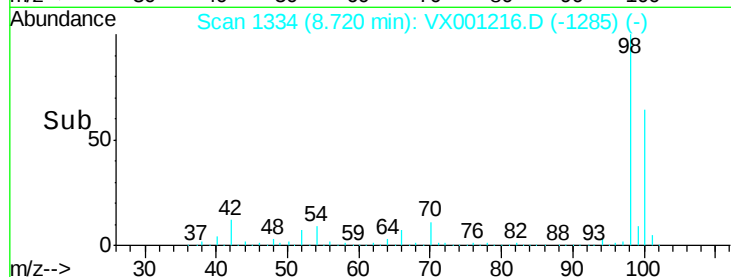
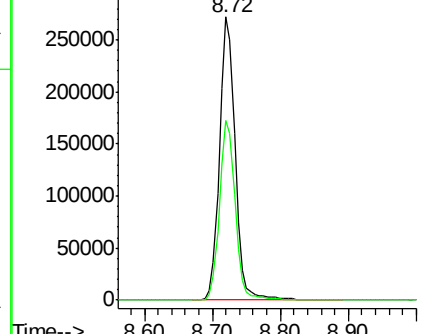
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Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#52

Toluene

Concen: 3.45 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VX001216.D

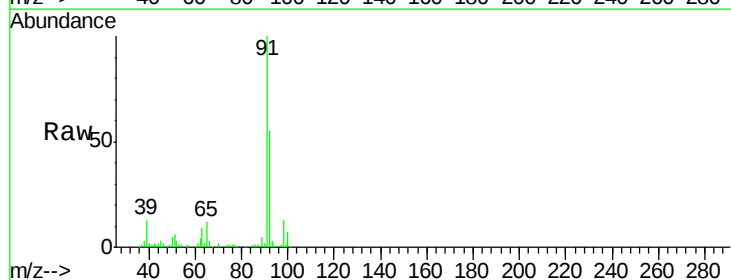
Acq: 28 Apr 2018 16:22

Tgt Ion: 92 Resp: 18690

Ion Ratio Lower Upper

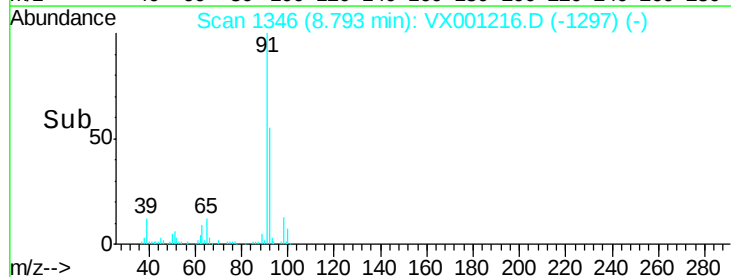
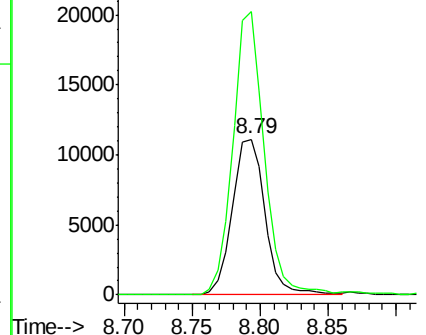
92 100

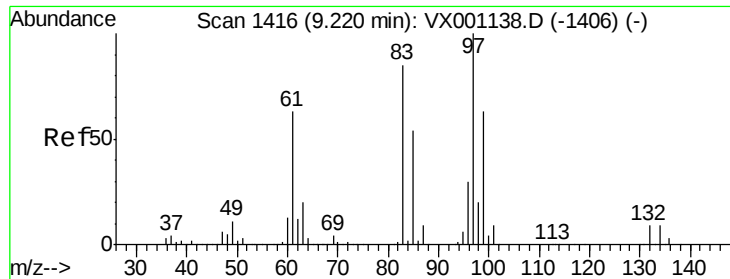
91 173.1 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





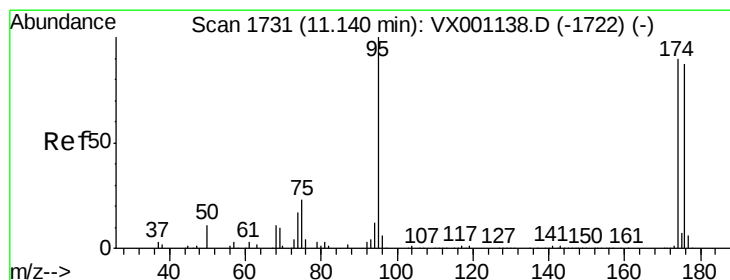
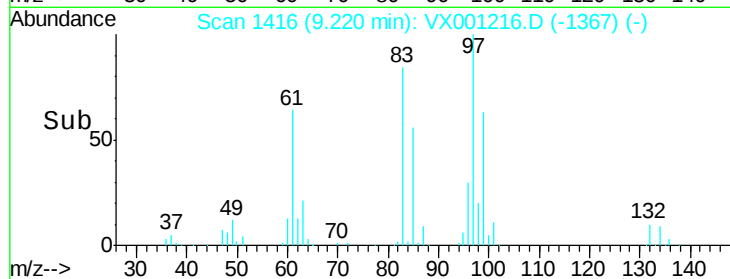
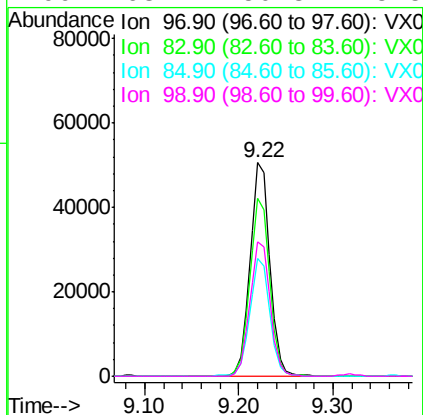
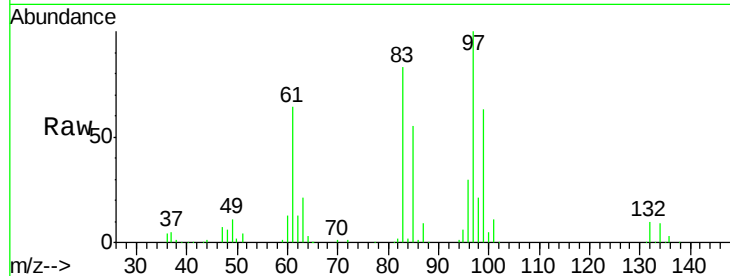
#55
 1,1,2-Trichloroethane
 Concen: 32.66 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Tot Ion:	97	Resp:	74966
Ion	Ratio	Lower	Upper
97	100		
83	83.2	68.0	102.0
85	55.2	42.9	64.3
99	63.1	50.3	75.5

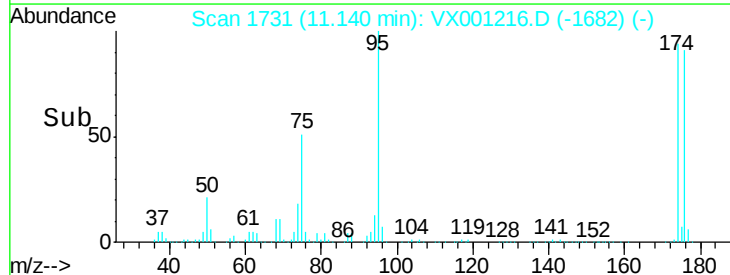
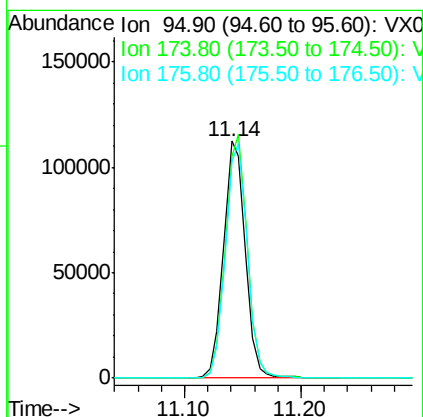
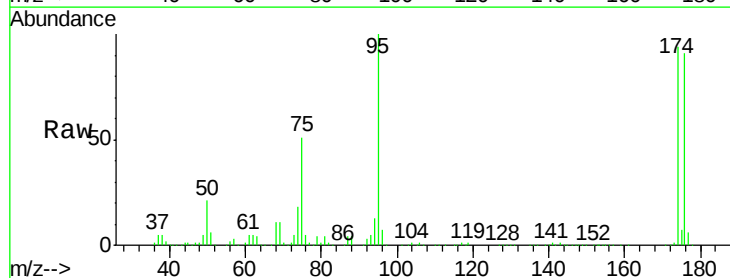
Manual Integrations
 APPROVED

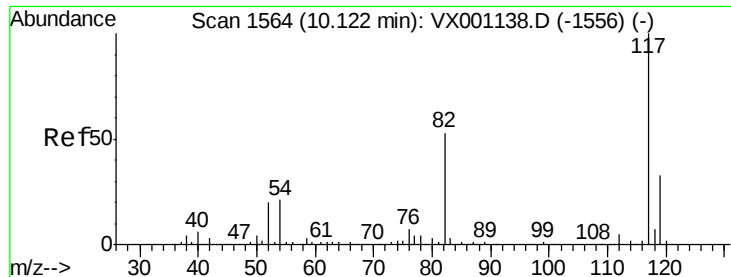
apatel
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#62
 4-Bromofluorobenzene
 Concen: 45.77 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Tgt Ion:	95	Resp:	145337
Ion	Ratio	Lower	Upper
95	100		
174	103.4	0.0	194.4
176	99.7	0.0	190.2





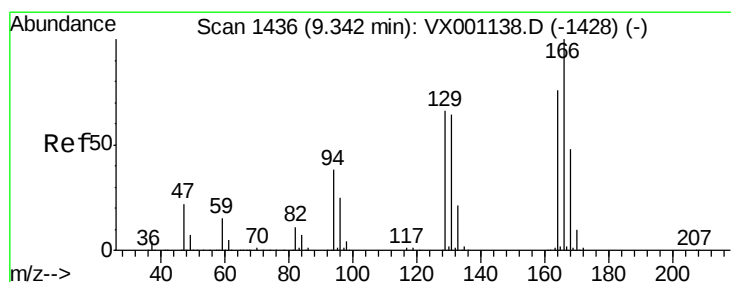
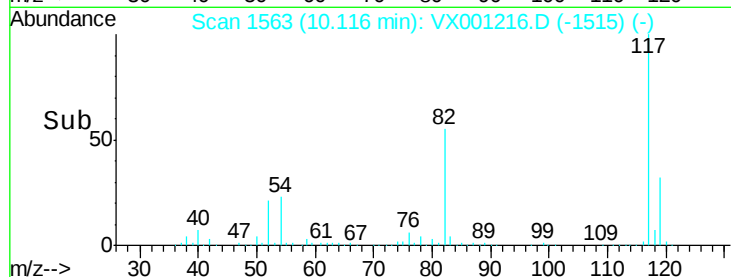
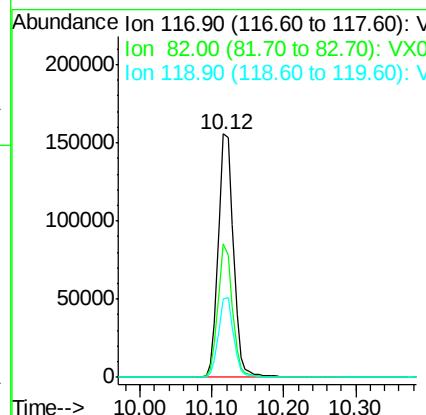
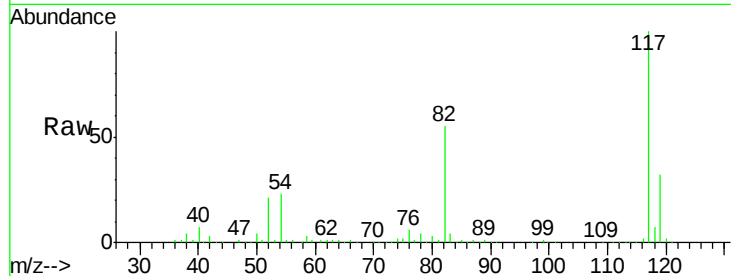
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-180419DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	227922		
82	55.0	42.1	63.1	
119	32.3	26.1	39.1	

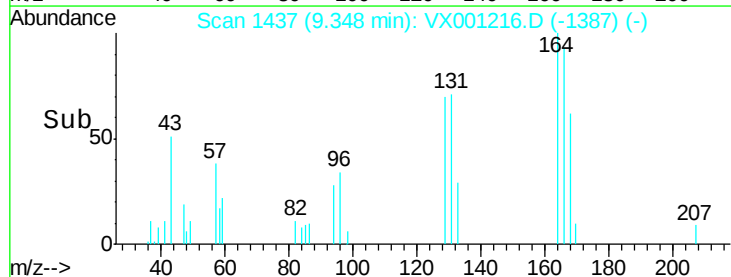
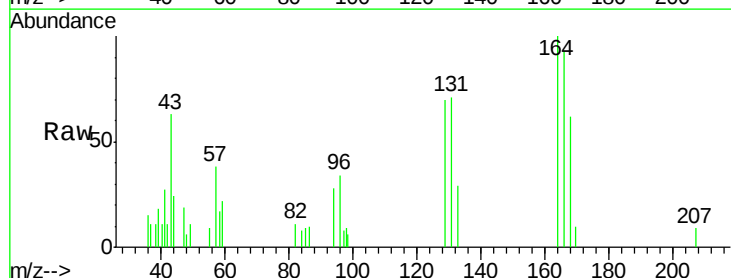
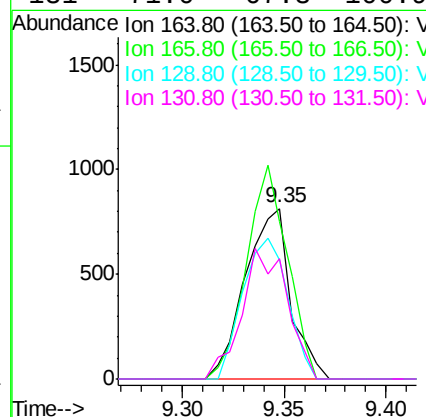
Manual Integrations
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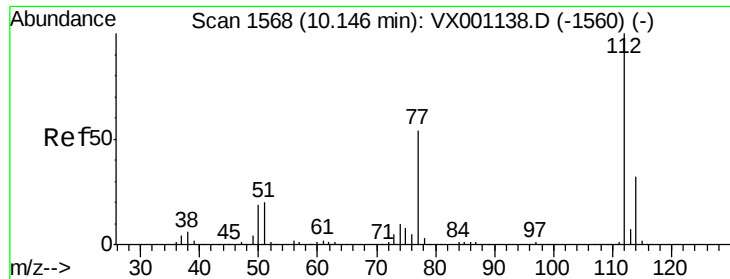
apatel
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#64
Tetrachloroethene
Concen: 0.52 ug/l
RT: 9.35 min Scan# 1437
Delta R.T. 0.01 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	1260		
166	92.6	105.0	157.6#	
129	69.9	69.4	104.2	
131	71.0	67.3	100.9	





#65

Chlorobenzene

Concen: 2.12 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Instrument :

MSVOA_X

ClientSampleId :

SS043MW009-180419DL

Tot Ion:112 Resp: 12656

Ion Ratio Lower Upper

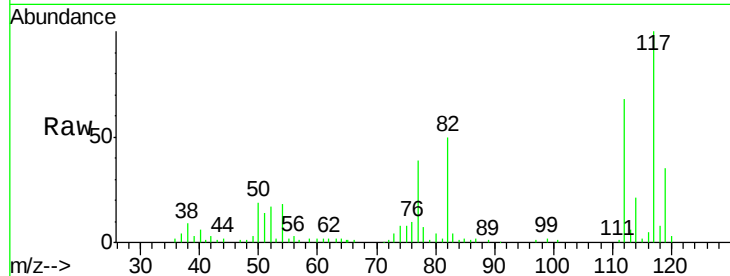
112 100

114 31.7 25.7 38.5

Manual Integrations
APPROVED

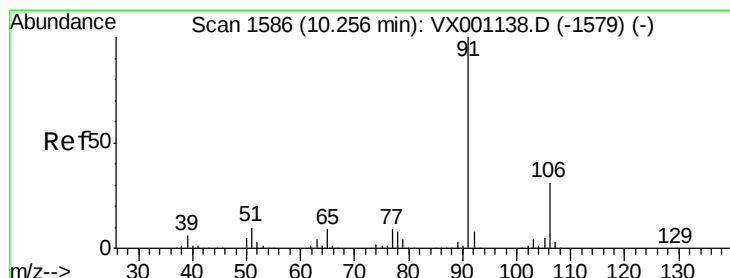
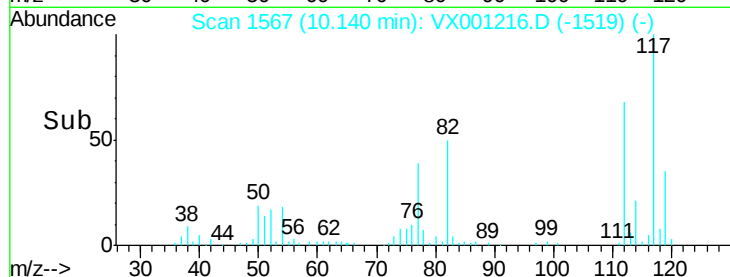
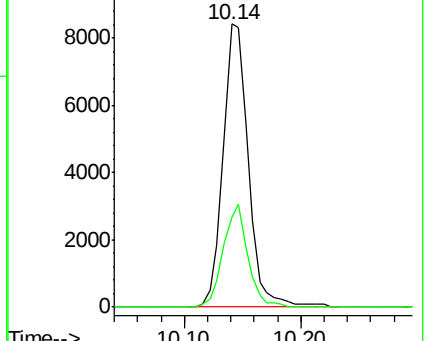
apatel

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 0.21 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX001216.D

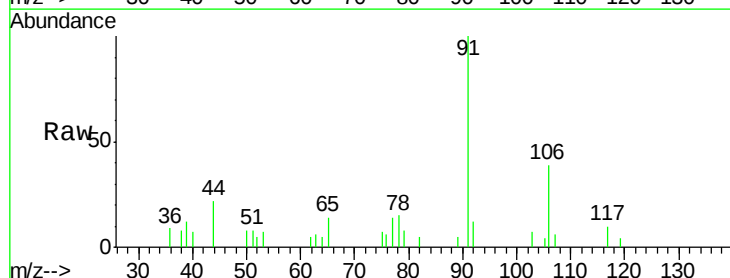
Acq: 28 Apr 2018 16:22

Tgt Ion: 91 Resp: 2007

Ion Ratio Lower Upper

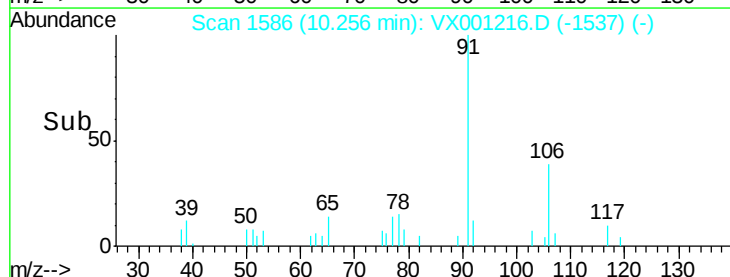
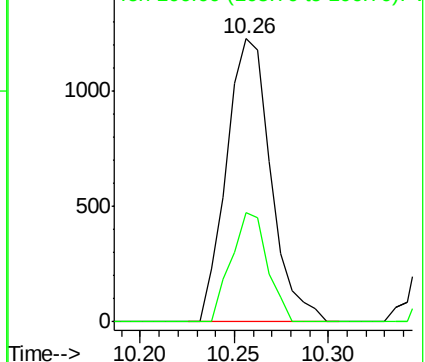
91 100

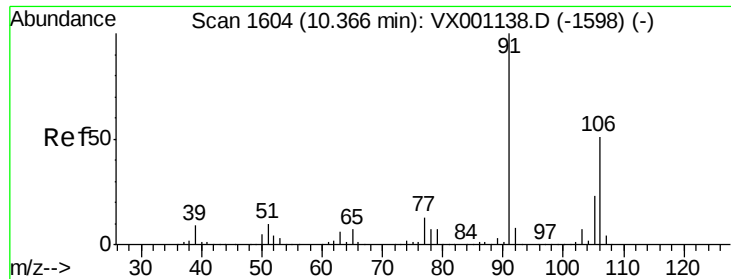
106 38.8 24.8 37.2#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





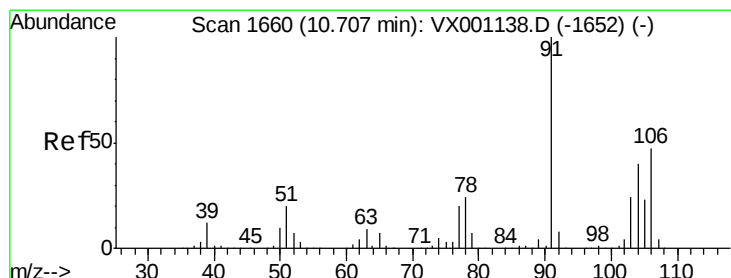
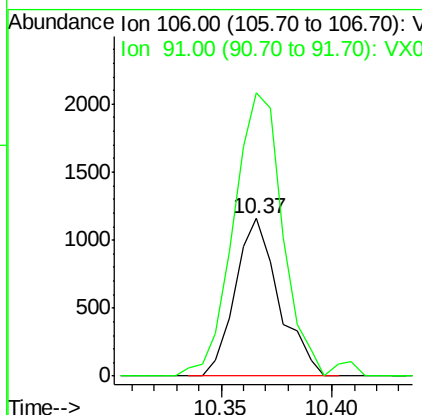
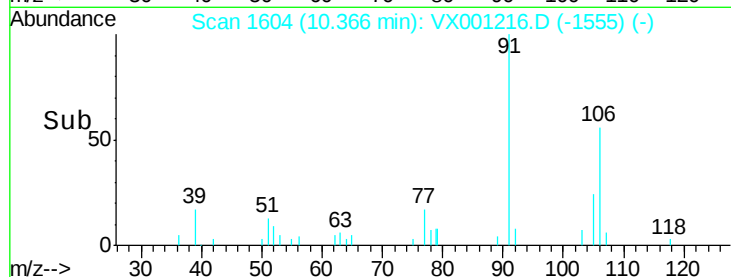
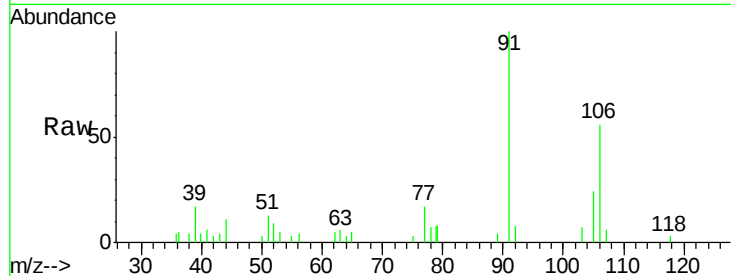
#68
m/p-Xylenes
Concen: 0.41 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-180419DL

Tot Ion:106 Resp: 1587
Ion Ratio Lower Upper
106 100
91 205.3 160.9 241.3

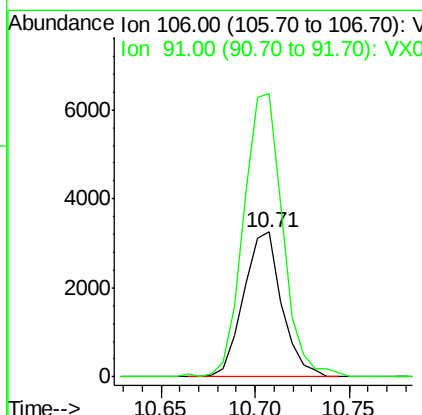
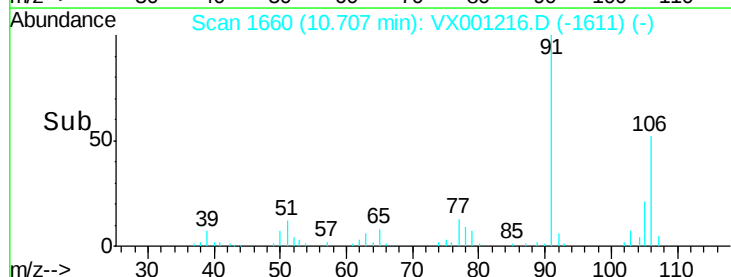
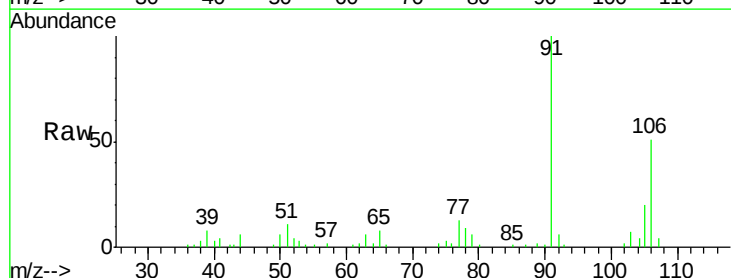
Manual Integrations
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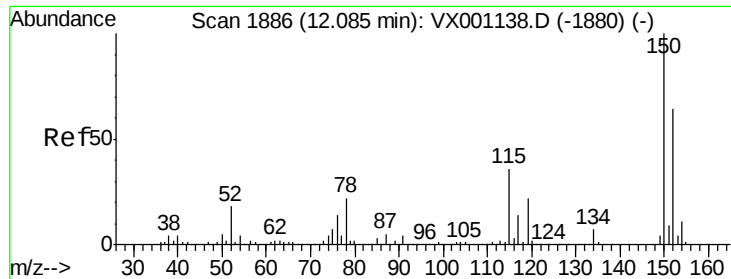
apatel
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#69
o-Xylene
Concen: 1.23 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Tgt Ion:106 Resp: 4570
Ion Ratio Lower Upper
106 100
91 200.6 106.2 318.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Instrument :

MSVOA_X

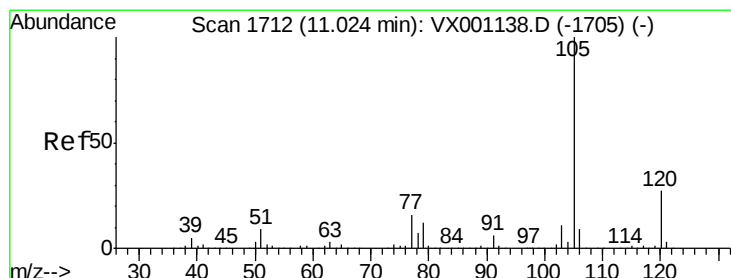
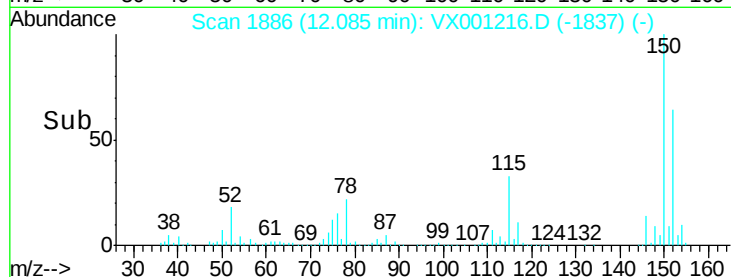
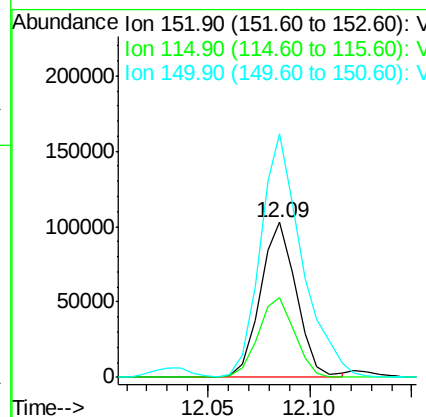
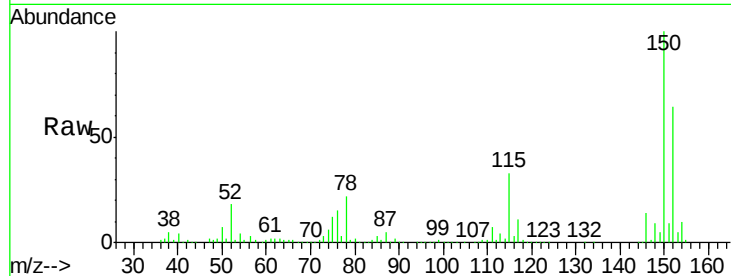
ClientSampleId :

SS043MW009-180419DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.4	38.0	114.0
150	181.1	0.0	349.6

Manual Integrations
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#73

Isopropylbenzene

Concen: 0.37 ug/l

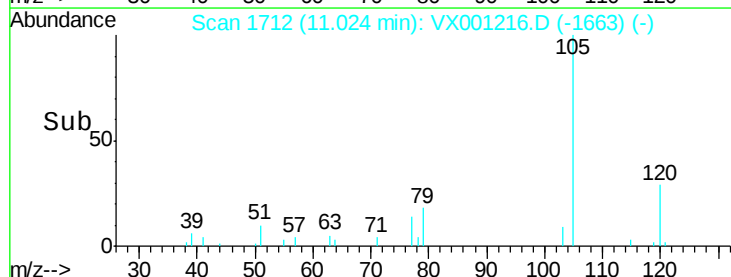
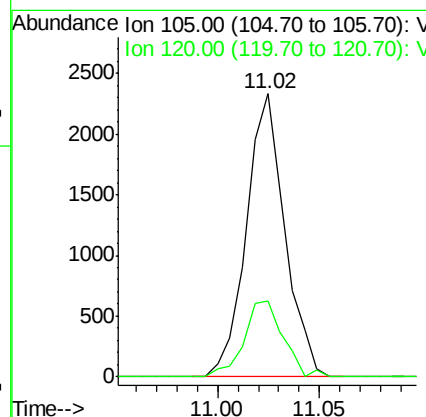
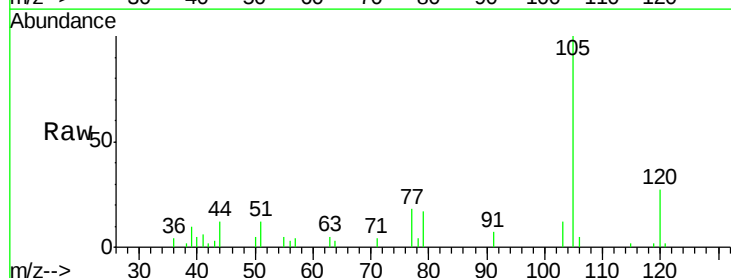
RT: 11.02 min Scan# 1712

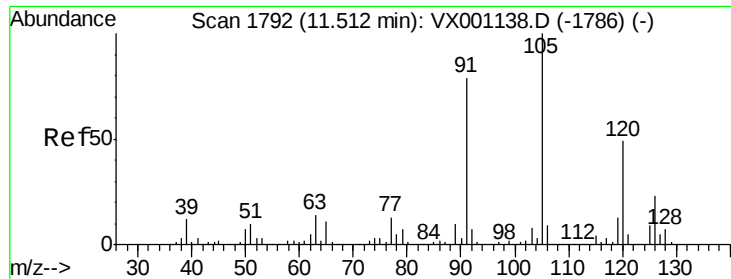
Delta R.T. 0.00 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.6	40.8





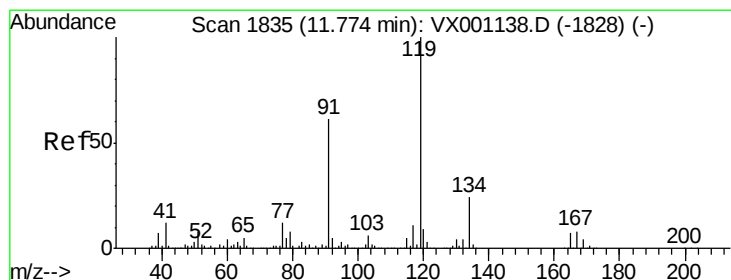
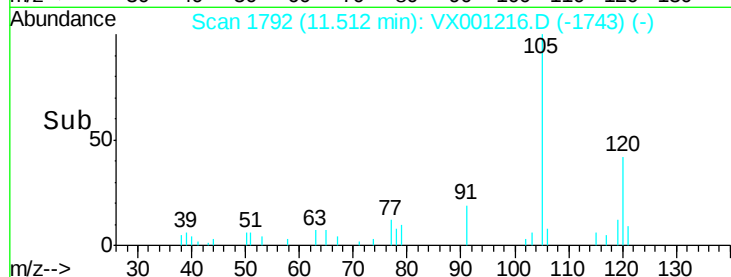
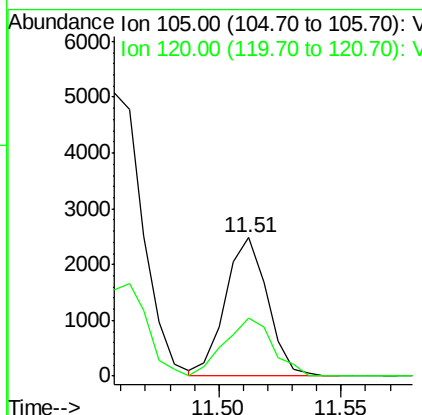
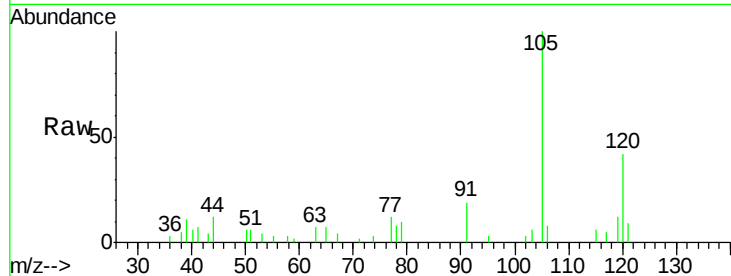
#80
1,3,5-Trimethylbenzene
Concen: 0.43 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Instrument :
MSVOA_X
ClientSampleId :
SS043MW009-180419DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.6	74.0

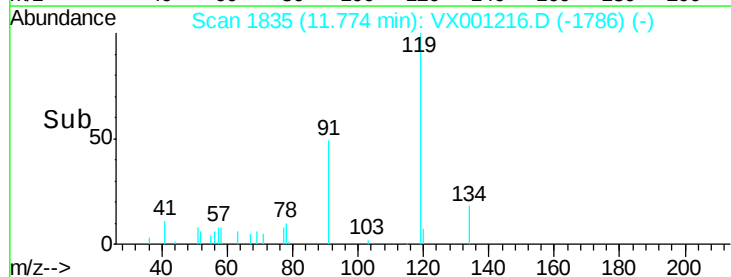
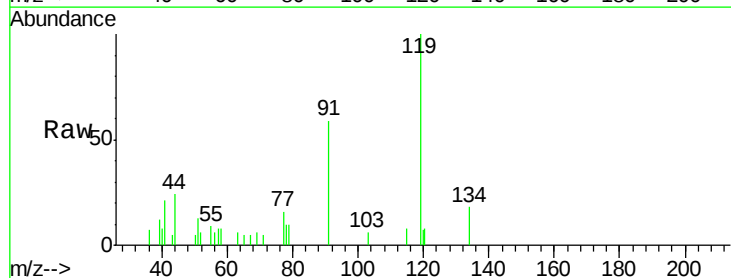
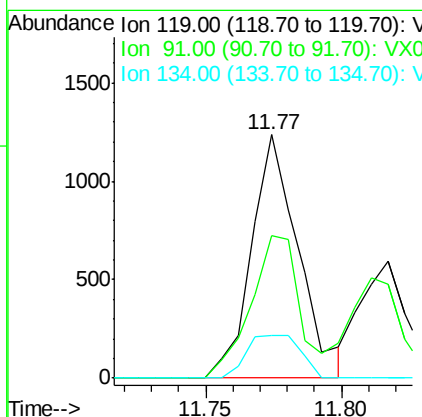
Manual Integrations
APPROVED

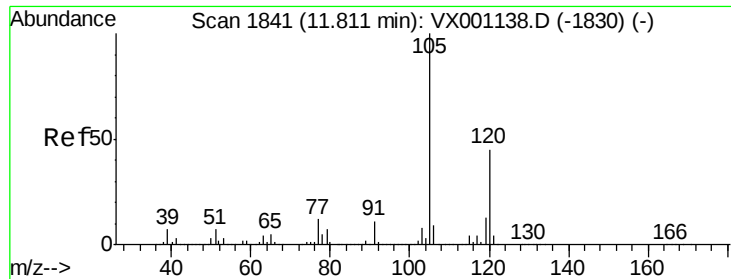
apatel
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#83
tert-Butylbenzene
Concen: 0.21 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX001216.D
Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Lower	Upper
119	100		
91	61.2	27.6	82.8
134	20.5	11.5	34.5





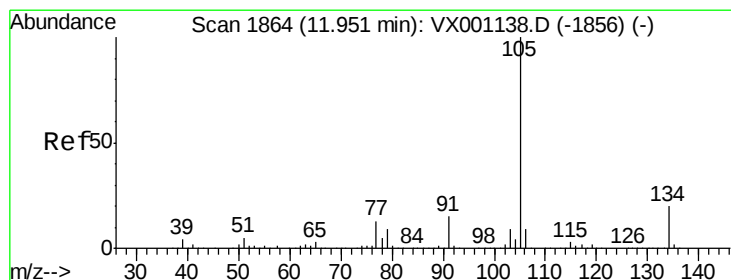
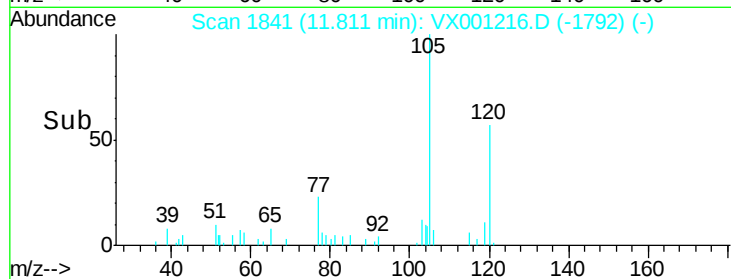
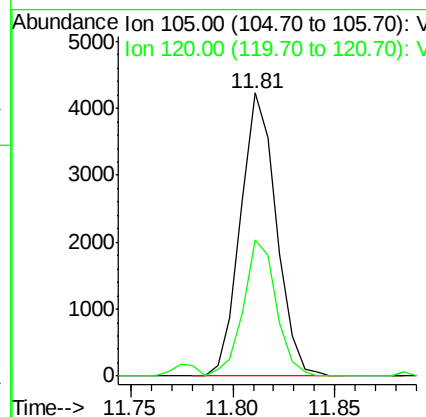
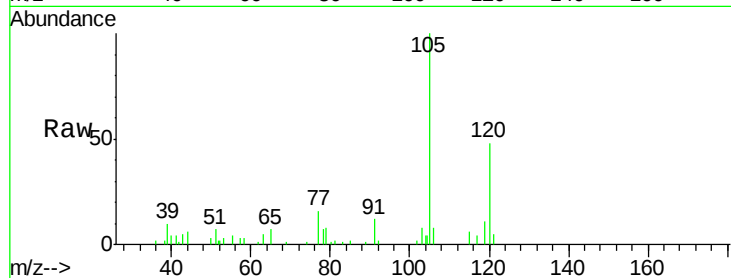
#84
 1,2,4-Trimethylbenzene
 Concen: 0.72 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.3

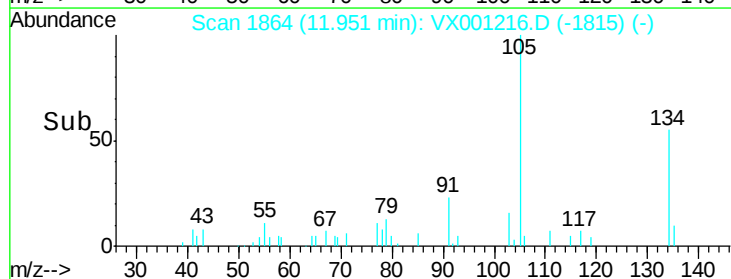
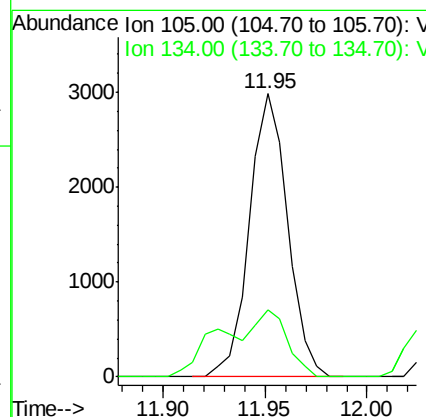
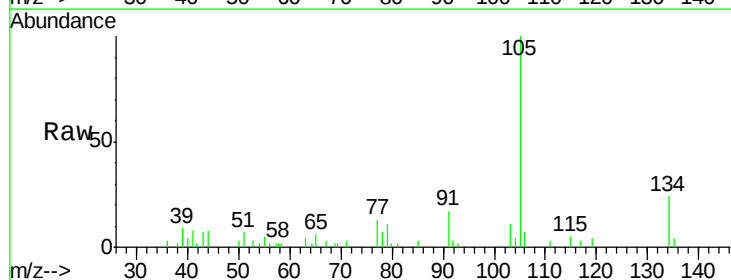
Manual Integrations
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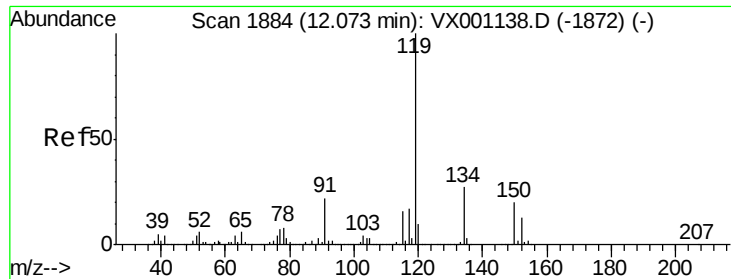
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#85
 sec-Butylbenzene
 Concen: 0.48 ug/l
 RT: 11.95 min Scan# 1864
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.0	10.5	31.5





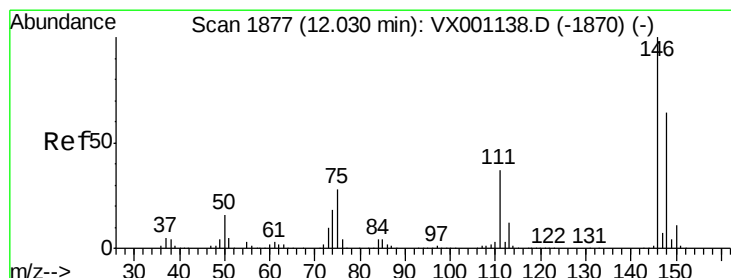
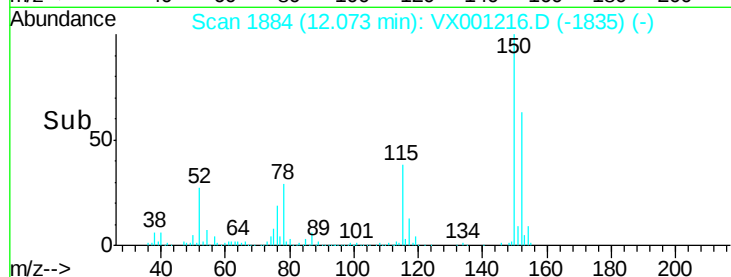
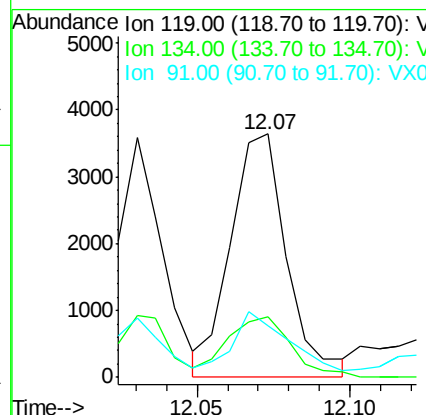
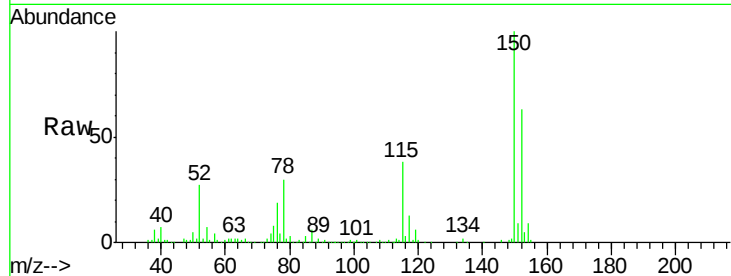
#86
 p-Isopropyltoluene
 Concen: 0.61 ug/l
 RT: 12.07 min Scan# 1884
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.4	13.4	40.1
91	27.1	11.6	34.8

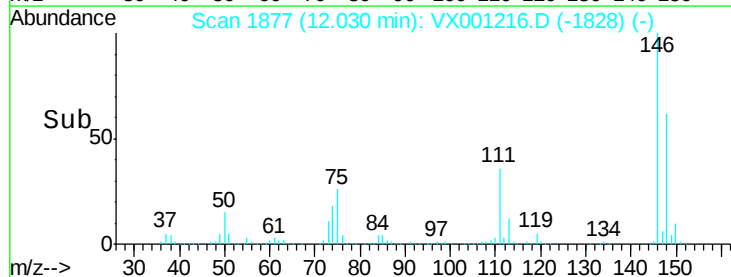
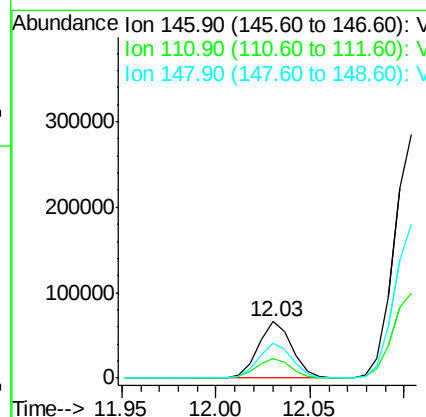
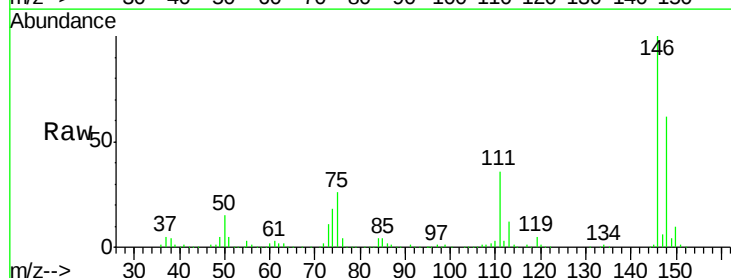
Manual Integrations
 APPROVED

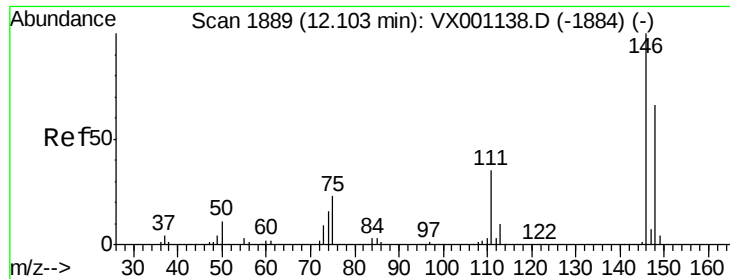
apatel
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#87
 1,3-Dichlorobenzene
 Concen: 18.60 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	18.6	56.0
148	62.4	32.3	96.8





#88

1,4-Dichlorobenzene

Concen: 75.88 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX001216.D

Acq: 28 Apr 2018 16:22

Instrument :

MSVOA_X

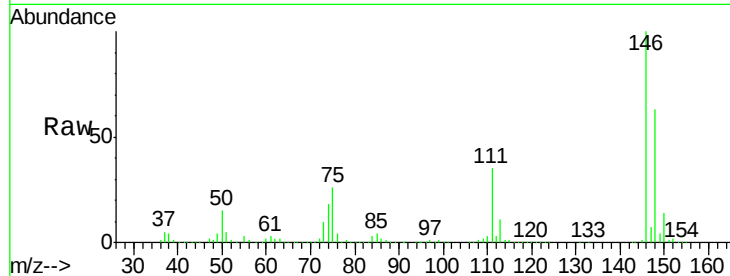
ClientSampleId :

SS043MW009-180419DL

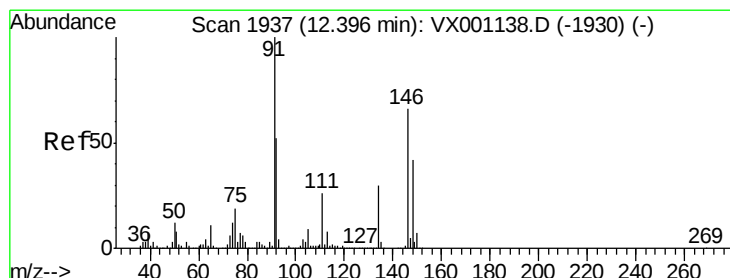
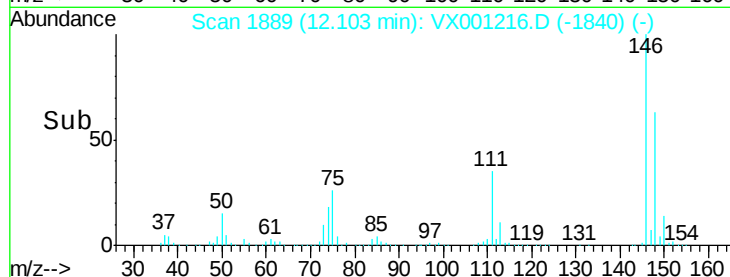
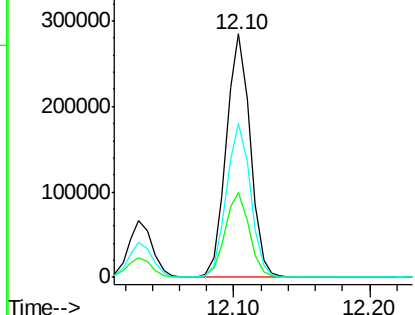
Tot Ion:	146	Resp:	347104
Ion Ratio	Lower	Upper	
146	100		
111	35.4	18.0	54.0
148	63.7	32.5	97.5

Manual Integrations
APPROVED

apatel
5/1/2018 7:44:50 PM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 595.09 ug/l

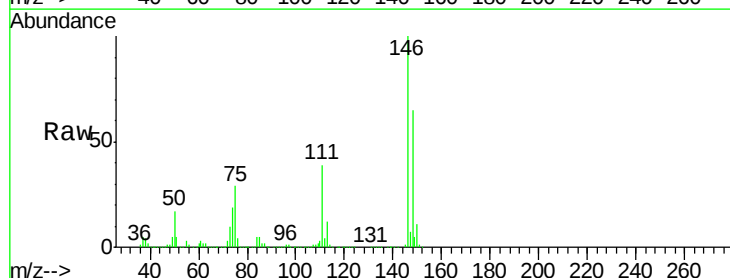
RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

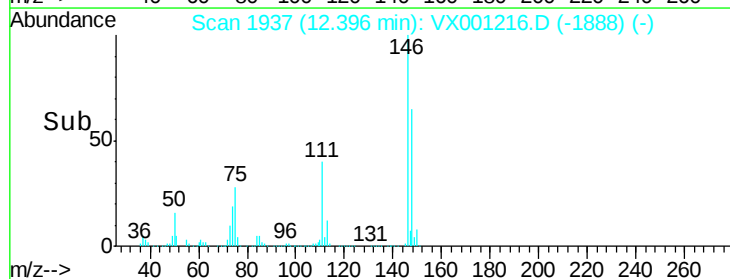
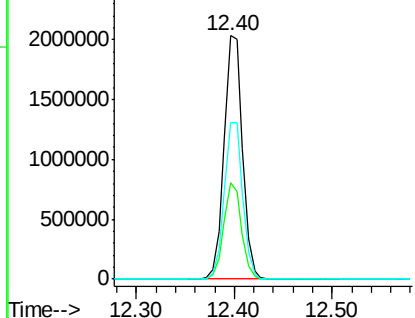
Lab File: VX001216.D

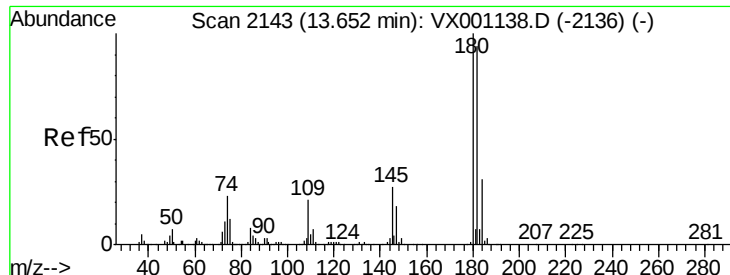
Acq: 28 Apr 2018 16:22

Tgt Ion:	146	Resp:	2640799
Ion Ratio	Lower	Upper	
146	100		
111	38.0	19.1	57.3
148	64.6	32.2	96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#93
 1,2,4-Trichlorobenzene
 Concen: 0.74 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX001216.D
 Acq: 28 Apr 2018 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW009-180419DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.2	47.9	143.6
145	44.7	13.8	41.4

Manual Integrations
 APPROVED

apatel
 5/1/2018 7:44:50 PM

